

**Abstract of the Disclosure**

A method of generating electronic keys for a public-key cryptography method using an electronic device. In a first of two separate calculating steps, pairs of prime numbers ( $p$ ,  $q$ ) are calculated and stored independent of knowledge of the pair of values ( $e, l$ ), in which  $e$  is the public exponent and  $l$  is the length of the key of the cryptography method. The second step is very quick and can be executed in real time by the device, in which a key  $d$  is calculated from the results of the first step and knowledge of the pair ( $e, l$ ).